

3. (Previously Amended) The apparatus of claim 1,  
the plurality of blank conduits extending longitudinally along said external  
surface of said screen each of said conduits extending only a portion of the length of said interval  
and, at least one of said conduits having an upper end positioned at a different level within said  
interval than the others.

4. (Previously Amended) The apparatus of claim 1 including:  
a shroud surrounding said sand screen unit and said delivery means, said shroud having a  
plurality of openings in the wall thereof.

5. (Original) The apparatus of claim 1 including:  
a cross-over connected to the upper end of said screen, said cross-over having outlet ports  
therein; and  
a packer attached to said cross-over.

6. (Previously Amended) Apparatus for gravel packing an interval of a wellbore by supplying a gravel bearing slurry, said apparatus comprising:

a sand screen unit adapted to be connected to the lower end of a workstring; and  
a plurality of substantially blank tubes with the tube ends axially spaced about the external surface of the sand screen unit for selectively delivering gravel slurry at a plurality of spaced axial locations of said interval when said apparatus is in an operable position within said wellbore.

7. (Previously Amended) The apparatus of claim 6,  
the plurality of substantially blank tubes extending longitudinally along said external surface of said screen unit, at least one of said tubes having a lower end that terminates at a different level within said interval than the others.

8. (Previously Amended) The apparatus of claim 6,  
the plurality of substantially blank tubes extending longitudinally along said external surface of said screen unit, at least one of said tubes having an upper end positioned at a different level within said interval than the others.

9. (Previously Amended) The apparatus of claim 6, including a shroud surrounding said sand screen unit and covering said blank tubes, said shroud having a plurality of openings in the wall thereof.

10. (Original) The apparatus of claim 6 wherein at least one pair of said blank tubes are substantially coaxially disposed in a spaced-apart, end-to-end orientation.

11. (Original) The apparatus of claim 6 wherein said blank tube ends have a beveled or arcuate shape.

12. (Original) The apparatus of claim 6 including:  
a cross-over connected to the upper end of said screen, said cross-over having outlet ports therein; and

a packer attached to said cross-over.

13. (Original) An improved method of completing a subterranean zone subject to migration of particulates with the produced fluids penetrated by a wellbore comprising the steps of:

- (a) placing in the wellbore in the zone a perforated liner having openings therein;
- (b) placing a sand screen in said liner whereby a first annulus is formed between said sand screen and said perforated liner and a second annulus is formed between said perforated liner and said wellbore;
- (c) positioning in said first annulus a plurality of blank conduits each having their ends open to fluids, at least one of said conduits having an end that terminates at a different level within the zone than the end of the other conduit;
- (d) isolating said second annulus; and
- (e) injecting treatment particulate material into said first annulus, into said conduit and into said second annulus by way of the openings in said perforated liner, whereby the particulate material is uniformly packed in said first and second annuli and the migration of particulates with fluids produced into said wellbore from the zone is prevented upon subsequent production of fluids from the zone.

14. (Original) The method of claim 13 wherein said particulate treatment material is sand or manmade proppant.

15. (Original) The method of claim 13 wherein said wellbore in said subterranean zone is open-hole.

16. (Original) The method of claim 13 wherein said wellbore in said subterranean zone has the casing cemented therein with perforations formed through the casing and cement.

17. (Original) The method of claim 13 wherein said second annulus is isolated in accordance with the isolating step by setting a packer in said wellbore.

18. (Original) The method of claim 13 wherein said wellbore in said zone is horizontal.
19. (Original) The method of claim 13, which further comprises the step of creating at least one fracture in said subterranean zone prior to or while carrying out the injecting step.
20. (Original) The method of claim 13 wherein said perforated liner and said sand screen are placed in an eccentric position within said wellbore.
21. (Original) An improved method of completing a subterranean zone subject to migration of particulates with produced fluids penetrated by a wellbore, comprising the steps of:
- (a) placing in a said wellbore in the zone a perforated liner having an internal screen disposed therein whereby a first annulus is formed between said screen and said perforated liner and a second annulus is formed between said perforated liner and said wellbore;
  - (b) positioning a plurality of conduits each having ends open to fluids, at least one of said conduits having an end that terminates at a different level within the zone than at least one of the other conduits;
  - (c) isolating said second annulus;
  - (d) pumping slurry of particulate material into said first annulus into said conduits and into said second annulus by way of the openings in said perforated liner, whereby the particulate material is uniformly packed in said first and second annuli and the migration of formation particulates with fluids flowing into said wellbore from the zone is prevented upon flowing of fluids from said subterranean zone; and
  - (e) flowing fluids from the zone and into said wellbore.
22. (Original) The method of claim 21, which further comprises the step of creating at least one fracture in said subterranean zone.
23. (Original) The method of claim 21 wherein at least one pair of said conduits are substantially axially aligned in a spaced-apart, end-to-end orientation.

24. (Original) The apparatus of claim 21 wherein said conduit ends have a beveled or arcuate shape.

25. (Original) An assembly for completing a subterranean zone penetrated by a wellbore comprising:

- a perforated liner;
- a screen disposed within the liner whereby an annulus is formed between said screen and said liner;
- at least one blank conduit in said annulus having upper and lower ends open to fluids;
- a cross-over adapted to be attached to a production string attached to said perforated liner and said screen; and
- a production packer attached to said cross-over.

26. (Original) A method of gravel packing a well that penetrates a subterranean oil or gas reservoir, comprising:

- (a) providing a borehole casing in said reservoir;
- (b) perforating said casing at preselected intervals in said reservoir to form at least one set of longitudinal, perforation tunnels adjacent a substantial portion of said reservoir;
- (c) locating a screen inside the casing and in juxtaposition with said perforation tunnels, an annulus being formed between said screen and said casing;
- (d) positioning in said annulus a plurality of conduits each extending only a portion of the length of said screen and having their upper and lower ends open to fluids to establish fluid communication between the conduits and said annulus, at least one of said conduits having an end that terminates at a different location within said reservoir than at least one other conduit;
- (e) injecting a fluid slurry containing gravel down through said annulus and conduits whereby the fluid portion of the slurry is forced out of said annulus through said perforation tunnels into said reservoir and the gravel portion of the slurry is deposited in said annulus and forced into the perforation tunnels in the reservoir;
- (f) sizing the cross-sectional area of said conduits and annulus so that if gravel forms a bridge in a portion of said annulus thereby blocking the flow of fluid slurry through the said

annulus, fluid slurry containing gravel will continue to flow through the conduits and into the annulus around the gravel bridge; and

(g) terminating the injection of said fluid slurry containing gravel when the said annulus is completely packed with gravel.

27. (Original) A method for gravel packing a well that penetrates a subterranean oil or gas reservoir, comprising:

- (a) providing a borehole casing through said reservoir;
- (b) perforating said casing at preselected intervals there along to form at least one set of longitudinal, perforation tunnels adjacent a substantial portion of said reservoir;
- (c) locating a sand screen inside the casing and in juxtaposition with said perforation tunnels, an annulus being formed between said sand screen and said casing;
- (d) positioning in juxtaposition with said sand screen a plurality of conduits each extending only a portion of the length of said screen and having their upper and lower ends open to fluids to establish fluid communication between the conduits and said annulus, at least one of said conduits having a lower end that terminates at a different level within said reservoir than the others;
- (e) injecting a fluid slurry containing gravel down the well and up through said annulus and conduits whereby the fluid portion of the slurry is forced out of said annulus through said perforation tunnels into said reservoir and the gravel portion of the slurry is deposited in said annulus and forced into the perforation tunnels into the formation;
- (f) sizing the cross-sectional area of said conduits and annulus so that if gravel forms a bridge in a portion of said annulus thereby blocking the flow of fluid slurry through the said annulus, fluid slurry containing gravel will continue to flow through the conduits and into the annulus around the gravel bridge; and
- (g) terminating the injection of said fluid slurry containing gravel when the said annulus is completely packed with gravel.

28. (Original) A method for gravel packing a well that penetrates a subterranean oil or gas reservoir, comprising;

- (a) providing a wellbore in said reservoir;
- (b) locating a screen inside the wellbore, an annulus being formed between said screen and said wellbore;
- (c) positioning a plurality of blank conduits in said annulus, each conduit having its ends open to fluids to establish fluid communication between the conduit and said annulus, at least one of said conduits having an end that terminates at a different level within said reservoir than the end of at least one other of said conduits;
- (d) injecting a fluid slurry containing gravel down through said annulus and conduits whereby the fluid portion of the slurry is deposited in said annulus;
- (e) sizing the cross-sectional area of said conduits and annulus so that if gravel forms a bridge in a portion of said annulus thereby blocking the flow of fluid slurry through the said annulus, fluid slurry containing gravel will continue to flow through the conduits and into the annulus around the gravel bridge; and
- (f) terminating the injection of said fluid slurry containing gravel when the said annulus is completely packed with gravel.

29. (Original) A method for gravel packing a well that penetrates a subterranean oil or gas reservoir, comprising:

- (a) providing a wellbore in said reservoir;
- (b) locating a screen inside the wellbore, an annulus being formed between said screen and said wellbore;
- (c) positioning a plurality of blank conduits in said annulus, each conduit having its ends open to fluids to establish fluid communication between the conduit and said annulus, at least one of said conduits having an end that terminates at a different level within said reservoir than the end of at least one other of said conduits;
- (d) injecting a fluid slurry containing gravel down the well and up through said annulus and conduits whereby the fluid portion of the slurry is forced out of said annulus into said reservoir and the gravel portion of the slurry is deposited in said annulus;
- (e) sizing the cross-sectional area of said conduits and annulus so that if gravel forms a bridge in a portion of said annulus thereby blocking the flow of fluid slurry through the said annulus, fluid slurry containing gravel will continue to flow through the conduits and into the annulus around the gravel bridge; and
- (f) terminating the injection of said fluid slurry containing gravel when the said annulus is completely packed with gravel.

30. (Original) A well screen comprising:  
at least one upper and one lower screen joints, each of said joints having basically the same construction and each comprising:  
a permeable section adapted to allow the flow of fluid therethrough while blocking the flow of particulates therethrough;  
a plurality of blank conduits, each of said conduits extending along a portion of the length of said joint and being open at both its upper and lower ends; and  
means for connecting the lower end of said upper screen joint to the upper end of said lower screen joint.

31. (Original) The well screen of claim 30 wherein each of said screen joints includes:



a shroud surrounding said permeable section and covering said conduits, said shroud having a plurality of openings in the wall thereof.

32. (Cancelled)

33. (Previously Added) The apparatus of claim 1, at least one of the plurality of conduits extending longitudinally along said screen unit less than half the length of said screen unit.

34. (Previously Added) The apparatus of claim 1, further comprising a second sand screen unit connected to said sand screen unit by a connector.

35. (Previously Added) The apparatus of claim 34, wherein the ends of the conduits are spaced apart from the connector.

36. (Previously Added) The apparatus of claim 1, the plurality of blank conduits extending longitudinally along said sand screen unit, the blank conduits extending only a portion of the length of said sand screen unit.

37. (Previously Added) The apparatus of claim 1, the blank conduits having open ends.

38. (Previously Added) The apparatus of claim 1, wherein the wellbore is uncased.

39. (Previously Added) The apparatus of claim 1, wherein at least one pair of said blank tubes are substantially coaxially disposed in a spaced-apart, end-to-end orientation.

40. (Previously Added) The apparatus of claim 6, further comprising a second sand screen unit connected to the sand screen unit by a connector.

41. (Previously Added) The apparatus of claim 40, the ends of the blank tubes longitudinally spaced from the connector.

42. (Previously Added) The apparatus of claim 6, the plurality of blank tubes extending longitudinally along only a portion of said sand screen unit.

43. (Previously Added) The assembly of claim 25, the at least one blank conduit having a solid conduit wall, the only openings in the conduit at or near the ends thereof.

44. (Currently Amended) An apparatus for treating an interval of a wellbore, the apparatus comprising:

sand screen unit having a connector at each end for connecting the sand screen unit to a workstring, the sand screen unit having a sand screen with an exterior surface, the exterior surface defining a sand screen exterior space;

a plurality of longitudinally extending conduits axially spaced around the outside of the sand screen unit, the conduits having ends thereto, the ends of the conduits longitudinally spaced apart from the sand screen unit connectors, the ends of the conduits open to the sand screen exterior space.

45. (Previously Added) The apparatus of claim 44, wherein at least two of the conduits are substantially coaxially disposed in a spaced-apart, end-to-end relation.

46. (Previously Added) The apparatus of claim 44, further comprising:  
a shroud disposed about the sand screen unit and plurality of conduits.

47. (Previously Added) The apparatus of claim 44, the conduits only open at the ends thereof.

48. (Previously Added) The apparatus of claim 44, the ends of the conduits beveled.

49. (Previously Added) The apparatus of claim 44, at least one of the conduits having an end at a location longitudinally spaced from the ends of at least one of the other conduits.

50. (Previously Added) The apparatus of claim 44, the conduits mounted on the outer surface of the screen unit.

51. (Previously Added) The apparatus of claim 44, further comprising a second sand screen unit connected to one of the connectors.

52. (Previously Added) The apparatus of claim 51, the second sand screen unit having a plurality of longitudinally extending conduits axially spaced around the second sand screen unit, the conduits of the second sand screen unit longitudinally spaced from the conduits of the first sand screen unit.

53. (Previously Added) The apparatus of claim 52, the conduits of the first and second sand screen units unconnected one to another.

54. (Previously Added) The apparatus of claim 44, the conduits arranged in staggered rows.